Abstract

As a method for the producing cyclic polyether structures at room temperature, in high yield and in a convergent manner, that may be applied to the synthesis of gambierol and ciguatoxin, without using an excessive amount of phosphate compound, alkylborane and cyclic ketene acetal phosphate are subjected to cross-coupling in the presence of a basic aqueous solution using palladium [1,1'-bis(diphenylphosphino)ferrocene] chloride as a catalyst.